

# SACC-M12FSL-4FEPL-CL - Power connector



1151390

<https://www.phoenixcontact.com/in/products/1151390>

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Power connector, Power, 5-position, unshielded, Socket straight M12, L, Push-lock spring connection, knurl material: Nickel-plated brass, external cable diameter 8 mm ... 13 mm, Contact 5 leading

## Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- Protected seal in the M12 socket

## Commercial Data

Item number	1151390
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2CEP
GTIN	4063151149352
Weight per Piece (including packing)	90.7 g
Weight per Piece (excluding packing)	90.7 g
Customs tariff number	85366990
Country of origin	DE

## Technical Data

### Notes

Assembly instruction:	<b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.
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### Mounting

Assembly instructions	The wires can be connected both with ferrules and without ferrules
Connection method	Push-lock spring connection

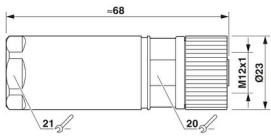
### Product properties

Product type	Circular connector (cable-side)
Number of positions	5
Sensor type	Power
Application	Power supply
No. of cable outlets	1
Shielded	no
Coding	L
Cable outlet	straight

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Length	68 mm

### External dimensions

Outside diameter	8 mm ... 13 mm
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### Housing

Diameter housing	23 mm
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### Material specifications

Flammability rating according to UL 94	V0
Material of grip body	Nickel-plated brass
Contact surface material	Au
Contact carrier material	PA

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Material for screw connection	Nickel-plated brass
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## Connection data

### Conductor connection

Connection method	Push-lock spring connection
Connection cross section	1.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (with ferrule)
	1.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (solid)
Connection cross section AWG	16 ... 14 (without ferrule)
	18 ... 14 (with ferrule)
Stripping length of the individual wire	10 mm
Tightening torque	0.6 Nm (M12 knurl)
	5 Nm (Pressure nut with connector housing)

### Pin assignment

Contact   Color (signal designation)   Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK
	FE = GYPK

## Electrical properties

Min. AWG, flexible, multi-strand	16
Rated surge voltage	1.5 kV
Nominal voltage U <sub>N</sub>	63 V DC
Nominal current I <sub>N</sub>	16 A (when using 2.5 mm <sup>2</sup> conductors)
	16 A (at 40 °C)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
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## Connector

### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	L

## Cable/line

Signal type/category	Power
Stripping length of the individual wire	10 mm

## Environmental and real-life conditions

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## Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C ... 50 °C (Plug / socket)

## Standards and regulations

Standards/specifications	based on IEC 61076-2-111
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